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AIR QUALITY IMPLEMENTATION PLAN FOR THE STATE OF ALASKA

VOLUME II: COMPLIANCE SCHEDULE

DECEMBER 1971

Prepared for the

STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

TRW
SYSTEMS GROUP

ONE SPACE PARK • REDONDO BEACH, CALIFORNIA 90278

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The document presents the schedule by which all sources will comply with the applicable portions of the control strategy of the Air Quality Implementation Plan for the State of Alaska. The schedule is such that all sources will be in compliance with the schedules applicable to the control strategy for attainment of the primary standards within three years of the date of approval of this Implementation Plan and for attainment of the secondary standards within a reasonable time thereafter. ~~This~~ document discusses: particulate controls; carbon monoxide controls; and the possibility of installing a surveillance system.

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TABLE OF CONTENTS

		Page
1.0	INTRODUCTION	1
2.0	PARTICULATE CONTROLS	1
3.0	CARBON MONOXIDE CONTROLS	2
4.0	SURVEILLANCE SYSTEM	3

COMPLIANCE SCHEDULE

1.0 INTRODUCTION

This document presents the schedule by which all sources will comply with the applicable portions of the control strategy. The schedule is such that all sources will be in compliance with the schedules applicable to the control strategy for attainment of the primary standards within three years of the date of approval of this Implementation Plan and for attainment of the secondary standards within a reasonable time thereafter. The schedule is legally enforceable through the system of rules and regulations to be adopted by the State.

The air quality in the State of Alaska is currently within the limits set by the National Ambient Air Quality Standards, except in the populated areas of Anchorage and Fairbanks. Air quality measurements show that particulate concentrations exceed the standards in both cities and that carbon monoxide exceeds the standards in the central Business District of Faibranks. However, the data available are not sufficient in quantity or acquacy for evaluating, with certainty, all area and point sources of particulate matter. In particular, it was not possible to show that the NAAQS can be met through a roll back of point source emissions.

2.0 PARTICULATE CONTROLS

The primary purpose of the control strategy is to maintain air quality in Alaska outside Anchorage and Fairbanks and to attain air quality within these cities through application of a series of control measures. These control measures include the requirement, administered according to the Rules and Regulations, for all point sources to apply reasonably available control technology (RACT) to reduce emissions. This requirement will be enforced through the Permit System. This system requires that all sources which emit from five to 100 tons per year uncontrolled register with the appropriate agency and that those which emit 100 or more tons per year must apply for a Permit Authority to Construct, Modify and/or Operate.

Compliance schedules for existing sources which are currently operating uncontrolled will be negotiated individually before being sub-

mitted to the Administrator. All compliance schedules must be submitted on or before the prescribed date for submittal of the first semi-annual report.

A series of special studies will be conducted to further define the particulate problem and facilitate its solution. The specific studies will be started upon approval and will continue until a suitable solution to the Alaska particulate problem is found. The studies are as follows:

- o The paving of 17 miles of streets in the Greater Anchorage Area (a scheduled part of the Burough paving program) will be monitored to determine its effectiveness in reducing particulate levels.
- o Street cleaning frequency will be increased from May to September and evaluated as a control measure.
- o Soft road shoulders on main access roads and gravel roads will be oiled between May and September.
- o A planting program on all lands from which ground cover has been removed will be initiated.

These studies will be evaluated continuously and more effort will be directed to those measures which appear to give the greatest reduction in the particulate levels.

3.0 CARBON MONOXIDE CONTROLS

Carbon monoxide levels have been shown (Control Strategy Volume) to result primarily from mobile sources. A roll back of 50% is required to meet the NAAQS.

The Federal Motor Vehicle Program will produce a reduction of carbon monoxide emissions and, consequently, an effective roll back of approximately 27% by 1977.

Alaskan regulations will prohibit idling of unattended cars effective upon approval of this Implementation Plan by the Administrator. This will decrease carbon monoxide emissions by about 15%.

The bypass roadway running from Gaffney Road to Farmers Loop will be completed during 1973. This roadway will allow traffic to bypass the Central Business District. A 10% reduction is expected to result.

4.0 SURVEILLANCE SYSTEM

An air quality monitoring system will be installed to monitor the progress of the air quality attainment program and to support the air quality maintainment program in the State. The equipment for episode monitoring stations will be ordered immediately upon approval of this Implementation Plan. Considering delivery, set-up, and checkout time, the system will be in full operation seven months after approval of the Plan by the Administrator.

Most of the monitoring system components are presently operated by the State and local air pollution agencies. Additional necessary equipment will be acquired before the end of calendar year 1972.